

CpE 645 Image Processing and Computer Vision

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Course Info

- Courses material can be found at Canvas:
<http://sit.instructure.com/>
- Syllabus (CpE645info.doc)

Topics in Image Processing

IPintro.ppt

Matlab Demos

- Type the following commands in Matlab
 - Fourier series (**xfourier**) and Fourier transform (**sigdemo1**)
 - 1-D filtering (**filtdem**) and filter design (**filtdemo**)
 - Image filtering and filter design (**firdemo**)
 - Edge detection: high-pass (**edgedemo**)
 - Noise reduction: low-pass (**nrfiltdemo**)
 - Compression (**dctdemo**)
 - Enhancement (**imadjdemo**)
 - Signals and images (**cpe645demo1.m** save the file and lenna.512 in the Matlab working directory)